



FIG. 1A	FIG. 1B
FIG. 1C	FIG. 1D

FIG. 1

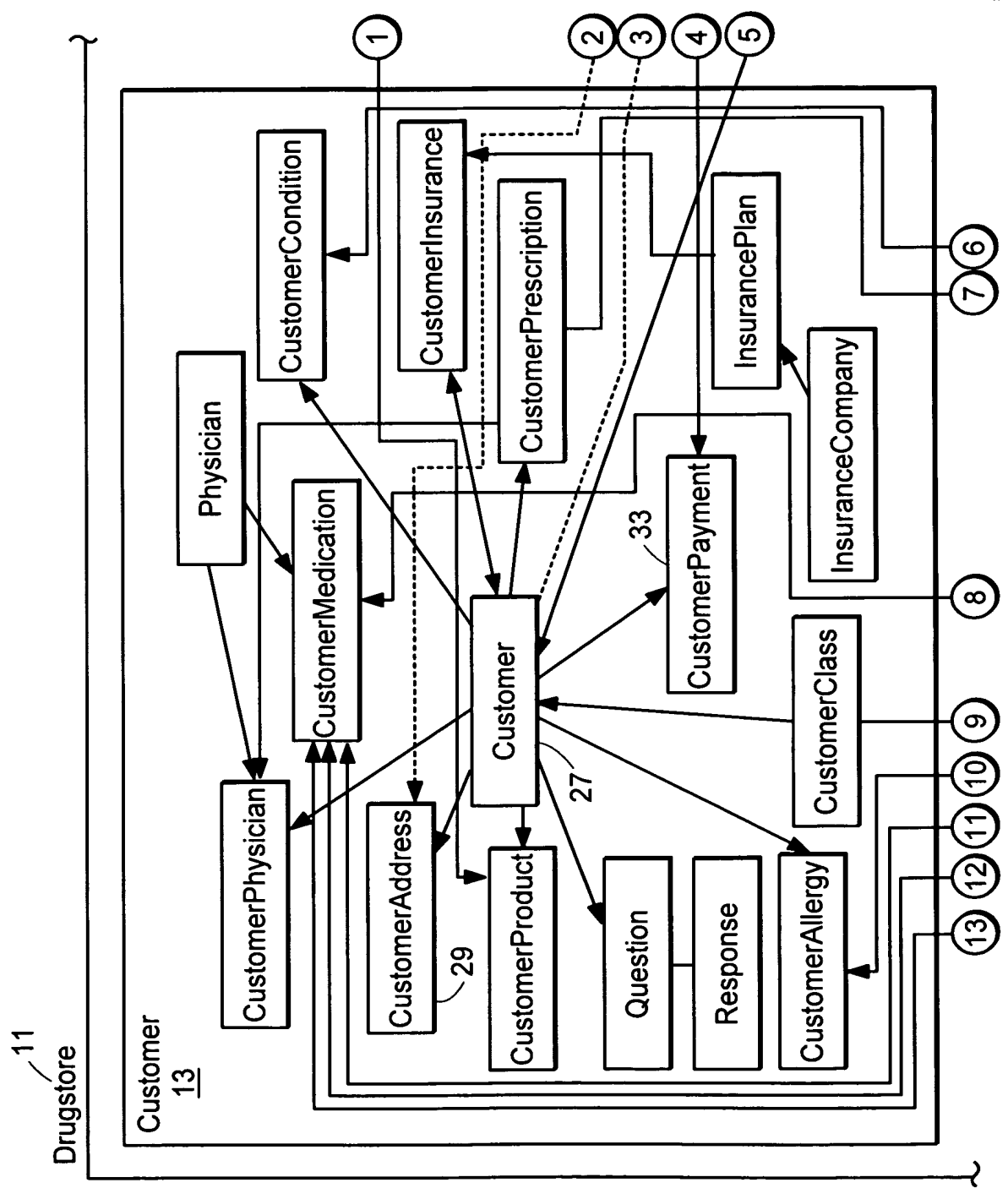


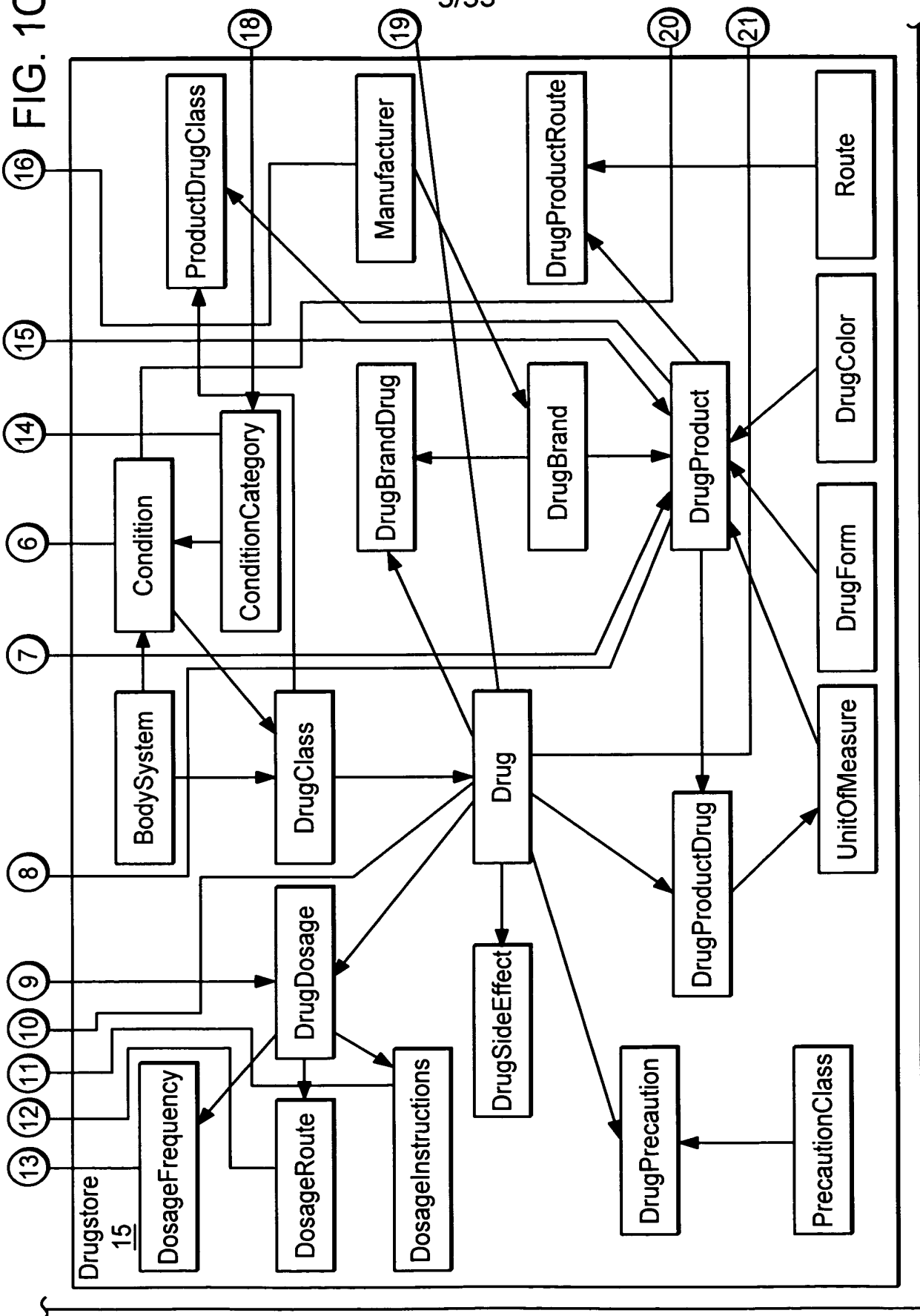
FIG. 1A





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FIG. 1C





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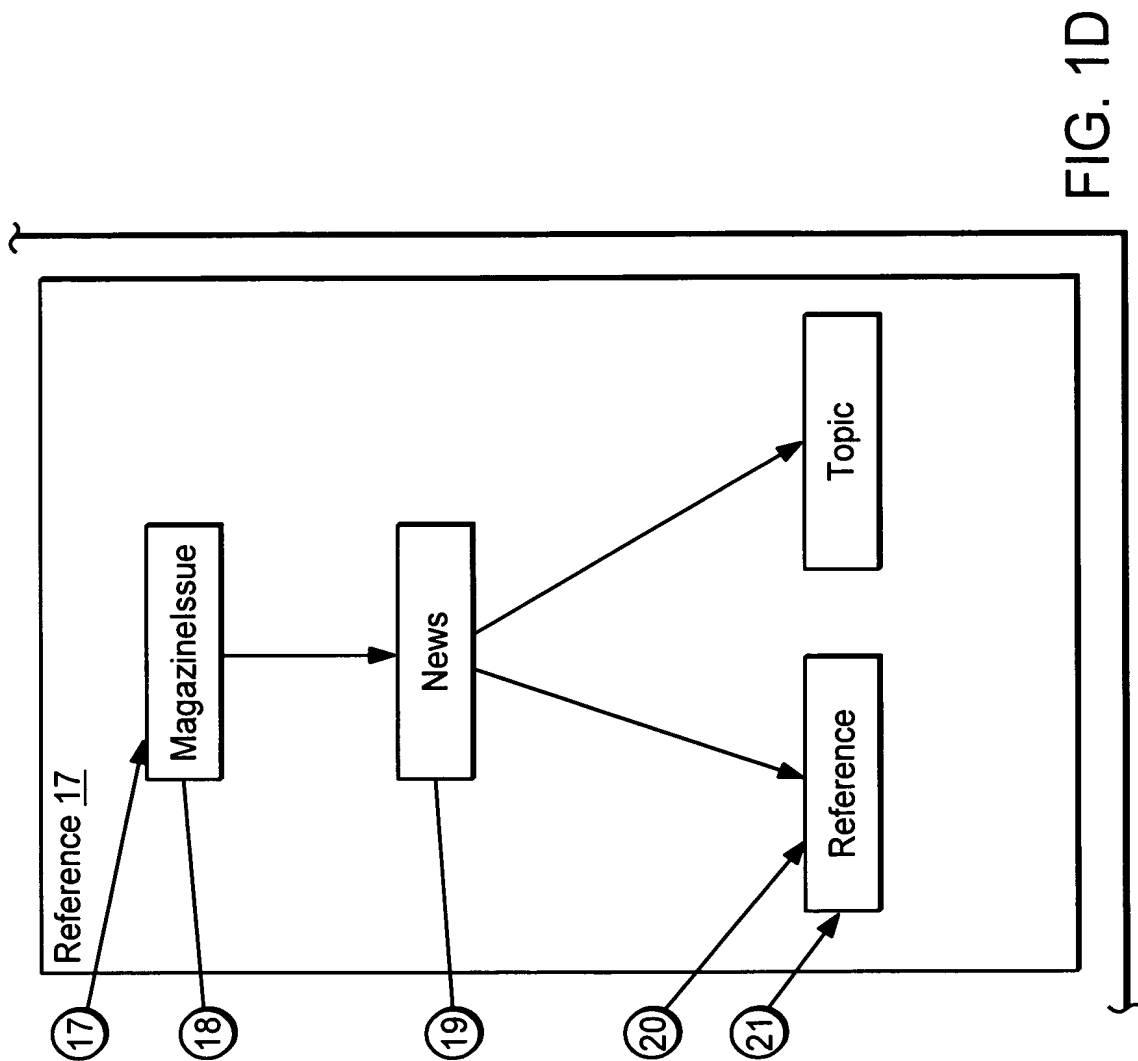


FIG. 1D



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FIG. 2

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FIG. 3

NeuArchitect Workbench - [NewDrugStore3.]

File Edit View Insert Project Multi User Construct Import Window Help

P S E A As Uc Do M Re ? V ? Sm Qm Pm T

Entity Services Attributes Agents Process Agents Documents Messages Data Gen Data Entry Experience Gen Object Gen Test Cockpit

☐ To be Deleted ☐ Class Attribute

Attribute List

☒ User ☐ System ☐ Rollups

SalesOrder

Attribute Name
1 R Customer
2 M OrderItems
3 B OrderDate
4 B 1 SubTotal
5 B 1 ShippingCharge
6 B 1 Taxes
7 B 1 OrderTotal
8 B PrescriptionOrder
9 S ShippingAddress
10 E ShippingMode
11 B NameOnShipLabel
12 B OrderStatus
13 B 1 OrderNumber
14 B OrderStatusString
15 S Payment
16 S BillingAddress
17 S Shipping
18 E StateVar

☐ SalesOrder

☐ Sort

☐ Business Rules...

Attribute Methods

DB Name

Payment

Description

To Do

Help

Data Type

☐ Basic ☐ Enum ☒ Class 333

CustomerPayment

Go

Current

Parent Entity

Relationship

Directional

Event Channel

Properties

Required

Process State

Non-Persistent

Multi-Value

Read Only

Owns

Public

Nested

Identity

Unique Key

Indexed

Cluster

User Selecting

User Identifying

Primary Key

Not in Archive

Not in Audit Trail

Not in Template

Presentation

Group

Entry Control Type

View Control Type

Sub Object

Edit

Edit

Button

In place

Control Style

Control Style

Button Icon

User Invisible

New Delete Up Down

-SalesOrder

Ready

Start

Exploring App

Visual Sources

TnoiDocument

DBtool-Micro

NeuArchitect

NUM

2:02 PM

Application No. 09/651,226
Replacement Drawing



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FIG. 5

NeuArchitect Workbench - [NewDrugStore3.]

File Edit View Insert Project Multi User Construct Import Window Help

DrugStore DrugStore DrugStore Core Reference Store BeautyP Categor HealthP Persona Product Product SalesOr SalesOr Shippin Site Wellnes Customer notused ExtCatego New NewApplicatio

Business Rules

Rules for Taxes

Business Rule List

	Initial Value
1	Derivation
2	Validation
3	Security
4	Action
5	

53

OK Cancel

☒ Says Unparsed

Rule this SubTotal*0.06

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Edit

Description

Message

Test Cockpit

Business Rules (1)

Options

Not in Archive ☐

Not in Audit Trail ☐

Not in Template ☐

User Invisible ☐

View Control Type Edit Control Style

Sub Object ☐ Button ☐ In place ☐ Button Icon

--SalesOrder

Ready

Start

Exploring App

Visual Sources

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DBTool-Micro

DBTool-Micro

NeuArchitect

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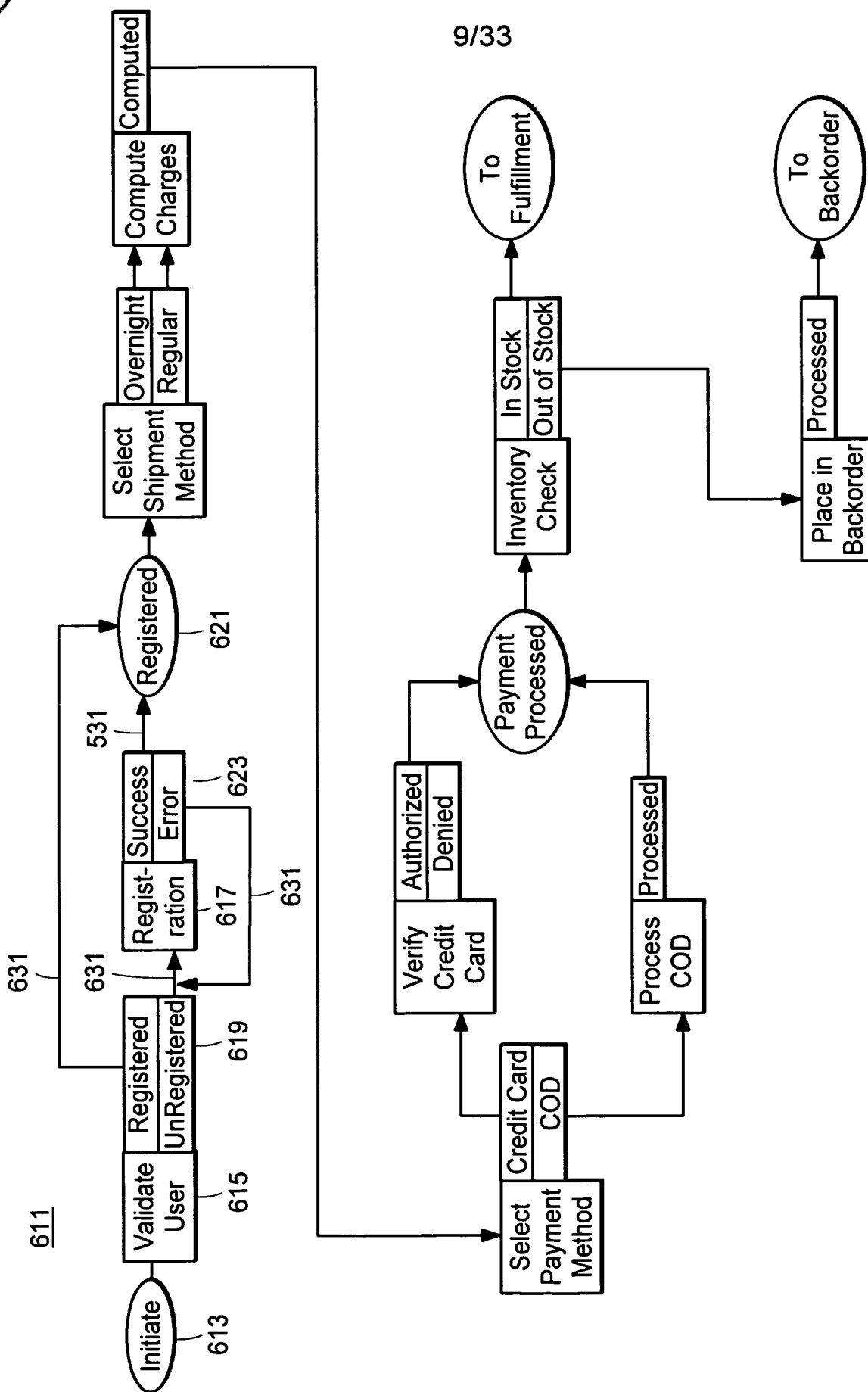


FIG. 6



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FIG. 7

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eComBuilder - NewDrugStore3.OMD

File Edit View Insert Project Multi User Construct Import Window Help

P S E A As Uc Do M Re ? ? ? Sm Qm Pm T

DrugStore
DrugStore
DrugStore
Core
Reference
Store
BeautyProduct
Category
HealthProduct
PersonalCarePro
Product
ProductRelations
SalesOrder-21
SalesOrderItem
Shipping
Site
WellnessProdu
Customer
notused
ExtCategory
New
NewApplication

Entity Services Attributes Agents Process Agents Documents Messages Data Gen Data Entry Experience Gen Object Gen Test Cockpit

Method List ☐ Show System Generated

Sales Order

1	ProcValidateUser
2	ProcRegistration
3	DeleteItem
4	ProcessShippingInfo
5	ProcessCreditCardInfo
6	GetShippingCharge
7	GetSubTotal
8	ProcessExecuteOrder
9	ProcUpdateItems
10	ProcCheckout
11	ProcCreditCard

713

Name AddItemToOrder ☒ Instance ☐ Set ☐ Class

Caption ☒ Object ☐ Database

Process State

☒ Public ☐ Abstract ☐ Required in Inherited Class

Description

To Do

Code JavaScript ☐ Java ☐ C++

```
var i = 0;
var Total = 0;
var Found = false;
for(i=0; i< this.OrderItems.length; i++)
{
    var Oltem = this.OrderItems[i];
    if(Oltem.Product_ID == Product_ID)
    {
        Oltem.Quantity += Quantity;
        Oltem.LoadProduct();
        Oltem.DeriveAll();
        Oltem.EOPersistStatus=3;
        Oltem.Update();
        Found = true;
        break;
    }
}
```

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Definition

voidAddItemToOrder((intProduct_ID, int Quantity)

Class	Name	In	Out	Rel	Ar
1	int	Product_ID			
2	int	Quantity			

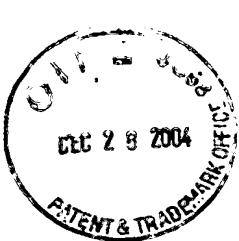
New Delete Up Down

Parent Child

Transfer Methods

NUM

Ready



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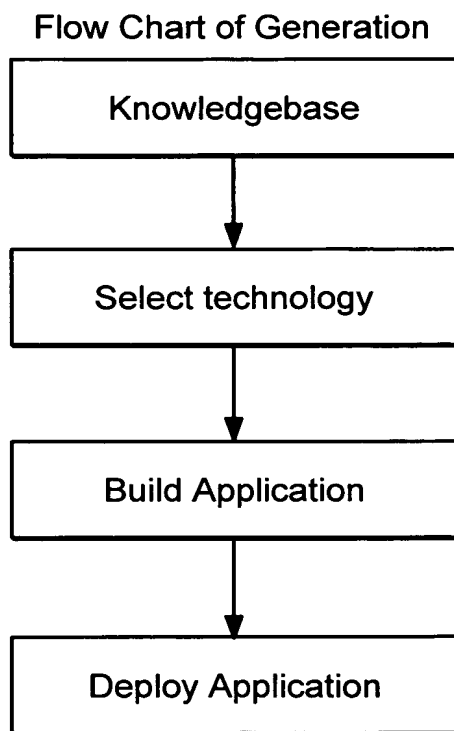


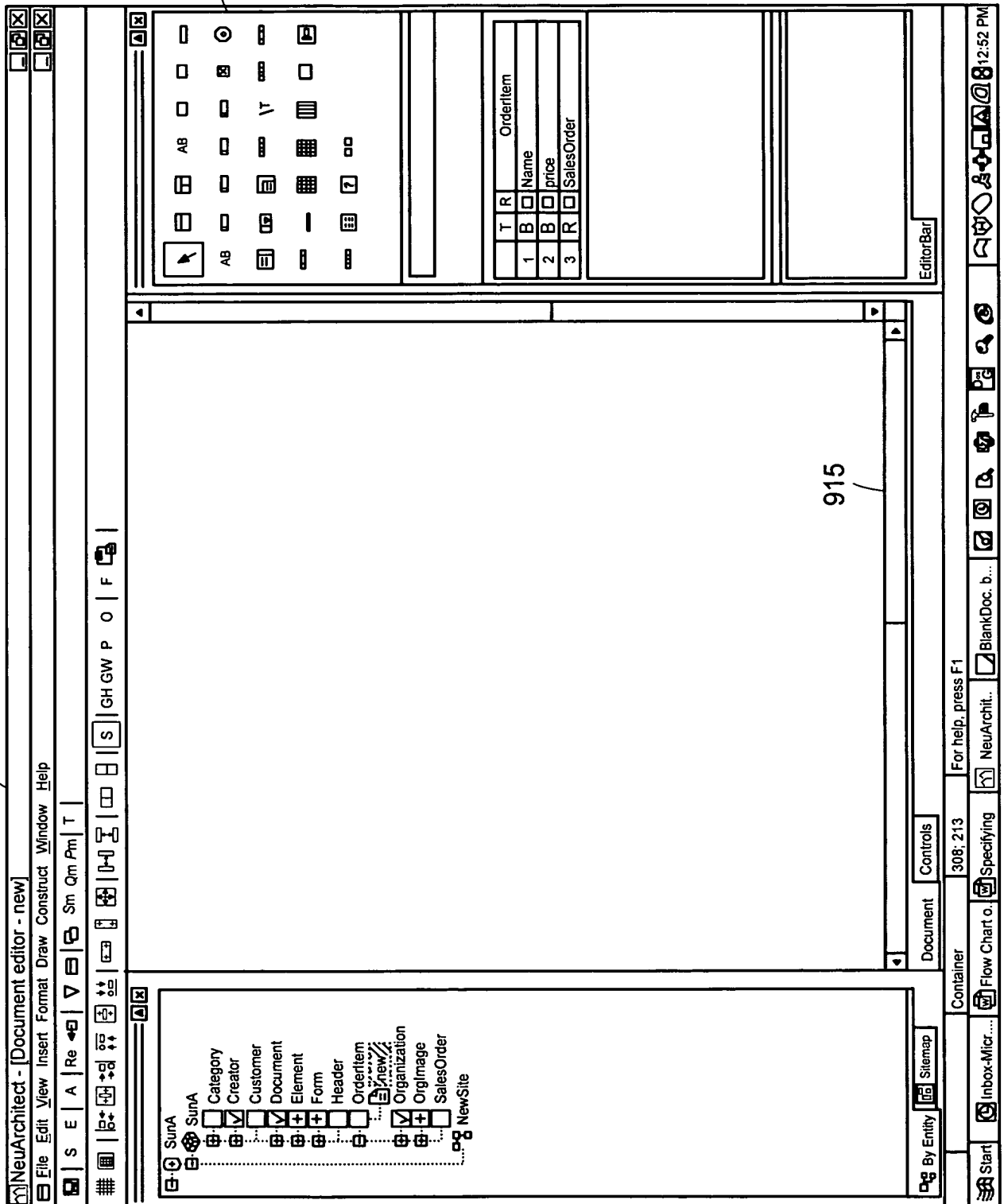
FIG. 8



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FIG. 9

911



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EditorBar





1017

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Properties

Form Object Space Data Security Parameters Form Themes Meta tags Technology

☐ Retire
☐ Report

☒ Final
☐ Center

Name: Insertcus

Directory expression:

Entity: Customer

Title:

Theme: Current

Style: BaseControls

Control style: BaseControls

HTML style:

HTML template:

Description:

To do:

Script OnLoad:

Script Client:

View

☐ Secure page
☐ Check for required fields

☐ View only
☒ Has data access

Data access: Enter Only

Data binding: Auto(Same as Parent)

View name:

Use transactions:

OK

Properties

FIG. 10



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<div style="display: flex; justify-content: space-between; font-size: 0.8em; font-weight: normal;"> Form Object Space Data Security Parameters Form Themes Meta tags Technology </div>	
<div style="display: flex; justify-content: space-between;"> <div> <input type="checkbox"/> Retire <input type="checkbox"/> Report </div> <div> <input checked="" type="checkbox"/> Final <input type="checkbox"/> Center </div> <div> <input type="checkbox"/> View only <input checked="" type="checkbox"/> Has data access </div> </div>	<div style="display: flex; justify-content: space-between; align-items: center;"> <div> <input type="checkbox"/> Secure page <input type="checkbox"/> Check for required fields </div> <div style="border: 1px solid black; padding: 5px; flex-grow: 1;"> <div style="display: flex; justify-content: space-between; align-items: center;"> <div style="border-bottom: 1px solid black; width: 100%; padding-bottom: 2px;">Name:</div> <div style="border: 1px solid black; padding: 2px;">Inserticus</div> </div> <div style="border-bottom: 1px solid black; width: 100%; padding-bottom: 2px;">Directory expression:</div> <div style="border-bottom: 1px solid black; width: 100%; padding-bottom: 2px;">Entity:</div> <div style="border-bottom: 1px solid black; width: 100%; padding-bottom: 2px;">Title:</div> <div style="border-bottom: 1px solid black; width: 100%; padding-bottom: 2px;">Theme:</div> <div style="border-bottom: 1px solid black; width: 100%; padding-bottom: 2px;">Style:</div> <div style="border-bottom: 1px solid black; width: 100%; padding-bottom: 2px;">Control style:</div> <div style="border-bottom: 1px solid black; width: 100%; padding-bottom: 2px;">HTML style:</div> <div style="border-bottom: 1px solid black; width: 100%; padding-bottom: 2px;">HTML template:</div> </div> <div style="margin-top: 10px;"> <div style="display: flex; justify-content: space-between;"> <div style="border: 1px solid black; padding: 2px; width: 100%;">Data access:</div> <div style="border: 1px solid black; padding: 2px; width: 100%;">Enter Only</div> </div> <div style="display: flex; justify-content: space-between;"> <div style="border: 1px solid black; padding: 2px; width: 100%;">Data binding:</div> <div style="border: 1px solid black; padding: 2px; width: 100%;">Auto(Same as Parent)</div> </div> <div style="display: flex; justify-content: space-between;"> <div style="border: 1px solid black; padding: 2px; width: 100%;">View name:</div> <div style="border: 1px solid black; padding: 2px; width: 100%;">Auto(Same as Parent) Dynamic Static</div> </div> <div style="margin-top: 10px;"> <div style="border: 1px solid black; padding: 2px; width: 100%;">Use transactions:</div> </div> </div> </div>
<div style="border-bottom: 1px solid black; width: 100%; padding-bottom: 2px;">Description:</div>	<div style="border: 1px solid black; height: 100px; width: 100%;"></div>
<div style="border-bottom: 1px solid black; width: 100%; padding-bottom: 2px;">To do:</div>	<div style="border: 1px solid black; height: 100px; width: 100%;"></div>
<div style="border-bottom: 1px solid black; width: 100%; padding-bottom: 2px;">Script OnLoad:</div>	<div style="border: 1px solid black; height: 100px; width: 100%;"></div>
<div style="border-bottom: 1px solid black; width: 100%; padding-bottom: 2px;">Script Client:</div>	<div style="border: 1px solid black; height: 100px; width: 100%;"></div>

OK

FIG. 10A

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FIG. 11

1019

1011

Properties

Form Object Space Parameters Form Themes Meta tags Technology

Attribute name in object space: Customer

Entity name in object space: Customer

Selection:

Sort:

Current entity available attributes

1121

1119

Entity list for current document

1117

1115

Refresh Remove

1113

Properties

OK

All entities

Address
CusOrder
Customer
OrderItem

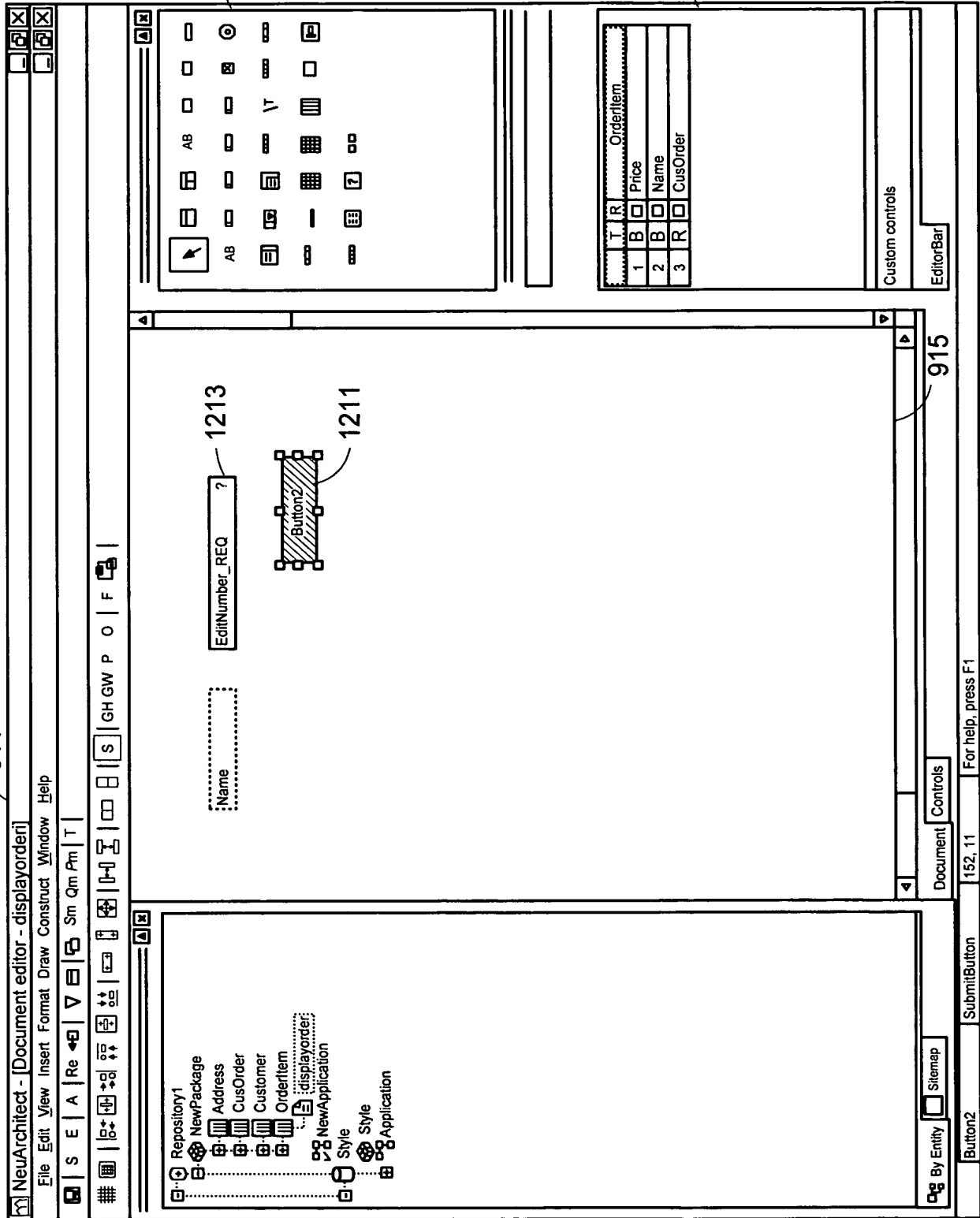
OrderItem
Name
Price
Customer
Name
Age

ATTRIBUTES (4)
Addresses
Age
Name
Orders
METHODS (0)
MESSAGES (0)

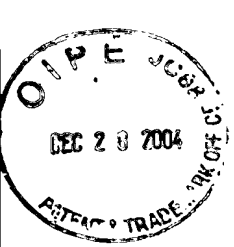


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911



5. Associate the data controls with the attributes.



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1311

Control properties

Control Display View Expressions Events Buddy Control HTML

Style:

Mouse effect
☐ Mouse effect

3D font
☐ 3D font
Set 3D
Highlight color
Shadow

Shape
☐ Has shape
Shape

Image generation
☐ Generate image
Format: Gif
Generate image
Image Processing

Fill and border
Fill: Type: Solid Color: Background
Border: Type: None
Shadow: Type: None
Back image: Select
☒ Center ☐ Tile ☐ Stretch

Text display
☒ Custom ☐ Theme
Font face: Arial Size: 10 Offset: 0 Weight: NORMAL Alignment: Left Color: Custom Color
☐ Relative ☐ Italic ☐ Blink ☐ Underline ☐ Strikethrough ☐ Small caps
Size: 8421 ☐ Superscript ☐ Subscript ☐ Oblique

Link display
Link color: Custom Color Visited link color: Custom Color Active link color: Custom Color

Control properties

OK Cancel

1313

FIG. 13



18/33

1411

Generate HTML

Output directory:
E:\applications\search20\

Generate only this document:
displayorderi

Type of data binding
☐ Optimazed Static and dynamic as marked
☒ Dynamic only: Ignore markings
☐ Static only: Ignore markings

Object details
☒ Stored procedures
☐ SQL statements

Style sheets
☐ Generate style sheets

Browsers

	Gen	Browser	Directory
1	<input checked="" type="checkbox"/>	Microsoft IE 5	
2	<input type="checkbox"/>	Microsoft IE 4	
3	<input type="checkbox"/>	Netscape 4	
4	<input type="checkbox"/>	Netscape 3	NS3\

Generate

Cancel

1415

1413

FIG. 14



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NeuArchitect Analytics
Run-Time Architecture

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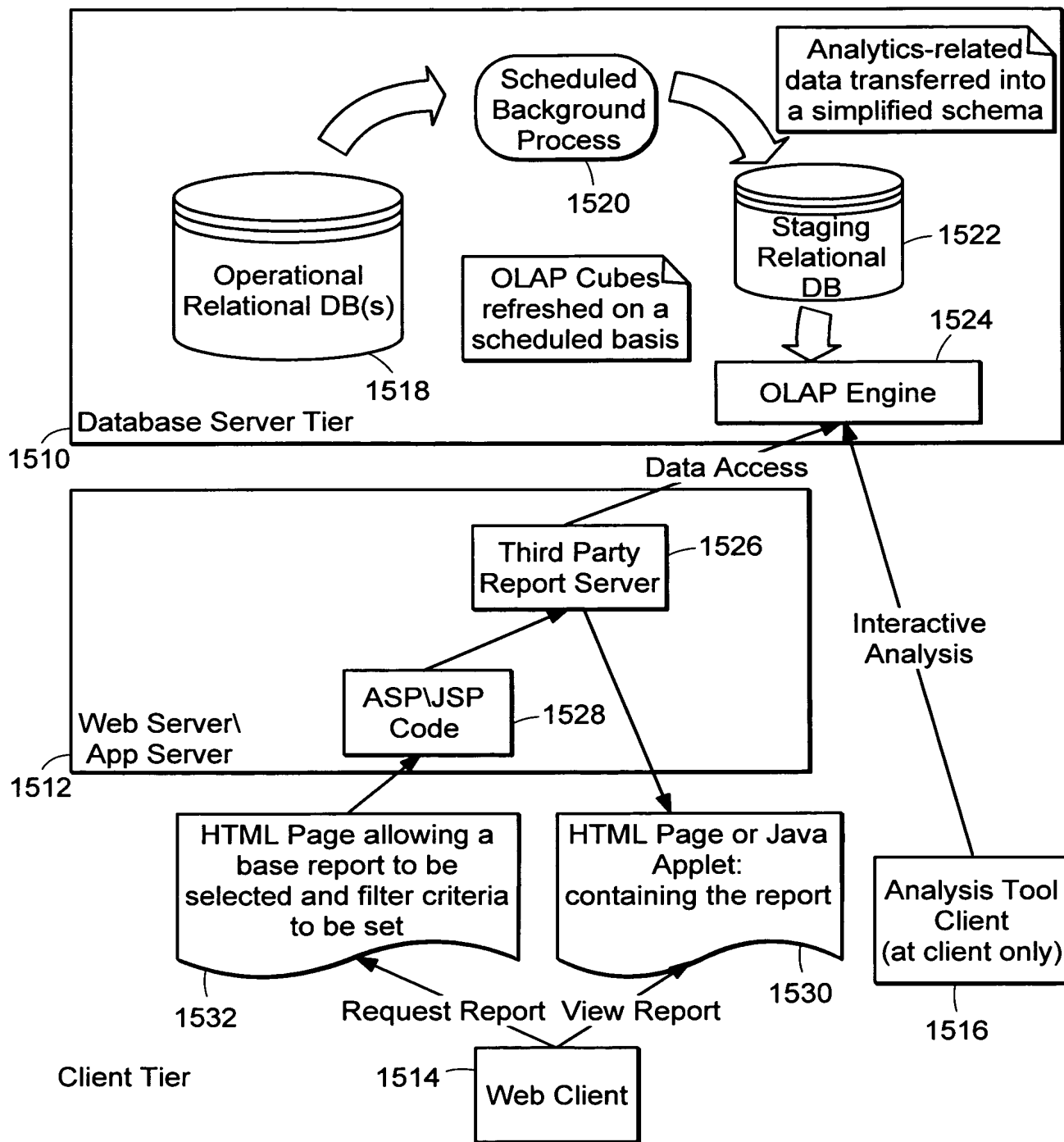


FIG. 15



20/33

NeuArchitect - [MyTest.OMD]

File Edit View Insert Project Multi User Construct Import Window Help

P S E A As Uc Do M Re ◀ ▶ ▽ ▹ ▸ ◂ ◃ ◅ ▹ ▸ ◂ ◃ ◅

MyTest

- NewPackage
- TheSubject
- BuyerOrg
- BuyerPerson
- Manufacturer
- Product
- Seller
- XAction
- NewApplication

Entity Settings Attributes Method Processes Documents Messages Indices Data Gen Data Entry Analytics Features

☒ User ☐ System ☐ To be deleted ☐ Do not persist

Copy/Xtr Attributes

Attribute list

	T	R	Attribute Name
1	R		Buyer
2	R		Seller
3	R		Product
4	B		XDate
5	E		XStatus
6	B		XAmount
7	B		SName
8	B		SRegion
9	E		ArchiveStatus
10			
11			

Attribute details

Name: XAmount

Caption: XAmount

Description: Security classification

To do:

Help:

Data Type: ☒ Basic ☐ Enum ☐ Class

Money

Size: 15 Precision: 2

Format:

1621 1625 1627 1629

FIG. 16



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NeuArchitect - [MyTest.OMD]

File Edit View Insert Project Multi User Construct Import Window Help

Entity Settings Attributes Method Processes Documents Messages Indices Data Gen Data Entry Analytics Features

MyTest

- NewPackage
- TheSubject
- BuyerOrg
- BuyerPerson
- Manufacturer
- Product
- Seller
- XAction
- NewApplication

Entity: ☐ User ☐ System ☐ To be deleted ☐ Do not persist

Attribute list:

	T	R	Attribute Name
1	R		Buyer
2	R		Seller
3	R		Product
4	B		XDate
5	E		XStatus
6	B		XAmount
7	B		SName
8	B		SRegion
9	E		ArchiveStatus
10			
11			

Attribute details:

Name: XAmount

Caption: XAmount

Description: Security classification

To do: 1733

Help: 1733

Copy/Xlr Attributes

Data Type Properties Visualization Business Rules Data Descriptor Features Sample Data

Properties:

- ☐ Required
- ☐ Read only
- ☐ Nonpersistent
- ☐ Public
- ☐ Process state
- ☒ Analytics measure

Keys:

- ☐ Identity
- ☐ User selecting
- ☐ User identifying
- ☐ Not in archive
- ☐ Not in audit trail
- ☐ Not in template

1621

1731

FIG. 17

22/33

NeuArchitect - [MyTest.OMD]

File Edit View Insert Project Multi User Construct Import Window Help

MyTest

- NewPackage
- TheSubject
- BuyerOrg
- BuyerPerson
- Manufacturer
- Product
- Seller
- XAction
- NewApplication

Entity Settings Attributes Method Processes Documents Messages Indices Data Gen Data Entry Analytics Features

User ☐ System ☐ To be deleted ☐ Do not persist

Copy/Xtr Attributes

Attribute details

Name: XStatus

Caption: XStatus

Description:

To do:

Help:

Attribute list

T	R	Attribute Name
1	R	Buyer
2	R	Seller
3	R	Product
4	B	XDate
5	E	XStatus
6	B	XAmount
7	B	SName
8	B	SRegion
9	E	ArchiveStatus
10		
11		

1841

1625

New Delete Up Down

—XAction

Data Type Properties Visualization Business Rules Data Descriptor Features Sample Data

Data Type: ☐ Basic ☒ Enum ☐ Class

XStatus

1843

Define Enum

XStatus

1845

	1	2	3	4	5	6	7	8
Initiated								
Inprogress								
complete								

NUM

For help press F1

FIG. 18



NeuArchitect - [MyTest.OMD]
File Edit View Insert Project Multi User Construct Import Window Help
P S E A As Uc Do M Re Sm Qm Pm T

MyTest
NewPackage
TheSubject
BuyerOrg
BuyerPerson
Manufacturer
Product
Seller
XAction
NewApplication

Entity Settings Attributes Method Processes Documents Messages Indices Data Gen Data Entry Analytics Features
Entity Settings Attributes Method Processes Documents Messages Indices Data Gen Data Entry Analytics Features
Entity Settings Attributes Method Processes Documents Messages Indices Data Gen Data Entry Analytics Features
Entity Settings Attributes Method Processes Documents Messages Indices Data Gen Data Entry Analytics Features

Attribute list
Attribute Name
1 R Buyer
2 R Seller
3 R Product
4 B XDate
5 E XStatus
6 B XAmount
7 B SName
8 B SRegion
9 E ArchiveStatus
10
11
1841
1953
New Delete Up Down
-XAction

Attribute details
Name: XStatus
Caption: XStatus
Description:
To do:
Help: 1733
Copy/Xtr Attributes

Properties
Required
Read only
Nonpersistent
Public
Process state
Analytics measure
Keys
Identity
User selecting
User identifying
Not in archive
Not in audit trail
Not in template

For help press F1

NUM

FIG. 19

NewArchitect - [MyTest.OMD]

File Edit View Insert Project Multi User Construct Import Window Help

Entity Settings Attributes Method Processes Documents Messages Indices Data Gen Data Entry Analytics Features

☐ To be deleted

Process list:

1	Transaction Processing
2	
3	

Process details:

Name: Transaction Processing

Caption:

Process state: XStatus

Description:

To Do:

New Delete Up Down

MyTest

- NewPackage
- TheSubject
- BuyerOrg
- BuyerPerson
- Manufacturer
- Product
- Seller
- XAction
- NewApplication

2069 Process Diagram

2061 Processes

2067

2063

2065

NUM





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Control Properties

State

Process State

XStatus

State Name

initiated
inprogress
complete

Description

initiated inprogress complete

Next Step

Analytics

☒ Start State

☐ Capture Time

Since

Reporting Label

OK Cancel Apply

2213

2215

2219

2211

2217

228

FIG. 22

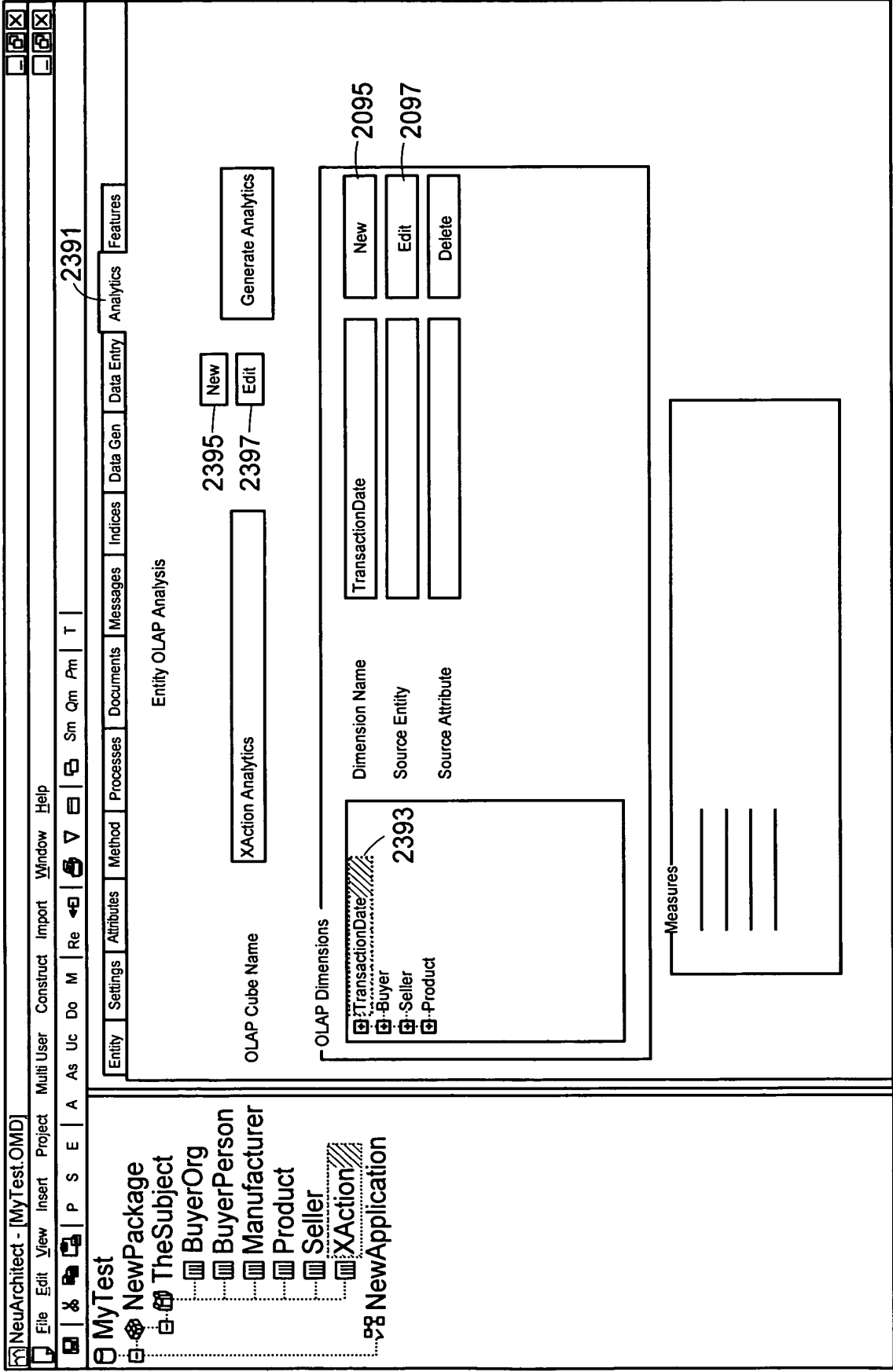


FIG. 23



24101

Edit Dimension

Dimension Name

New Dimension

☐ Time Dimension

Time Hierarchy

Start Month

OK

Cancel

XAction Attributes

	T	R	Attribute Name
1	R		Buyer
2	R		Seller
3	R		Product
4	B		XDate
5	E		XStatus
6	B		XAmount
7	B		SName
8	B		SRegion
9	E		ArchivesStatus
10			

>>

<<

Clear

Dimension Levels

Up

Down

Navigate Relationship

Back

Level Display Name

FIG. 24



29/33

24101

Edit Dimension [X]

Dimension Name:

Dimension type: ☒ Time dimension

Time hierarchy: Start month:

OK Cancel

2515

2511

2513

Order Attributes

T	R	Attribute Name
1	B	Amount
2	B	OrderDate
3	E	OrderStatus
4		
5		

Navigate Relationship Back

Dimension levels

Order. OrderDate

Up Down

Level display name:

>> << Clear

FIG. 25



2617

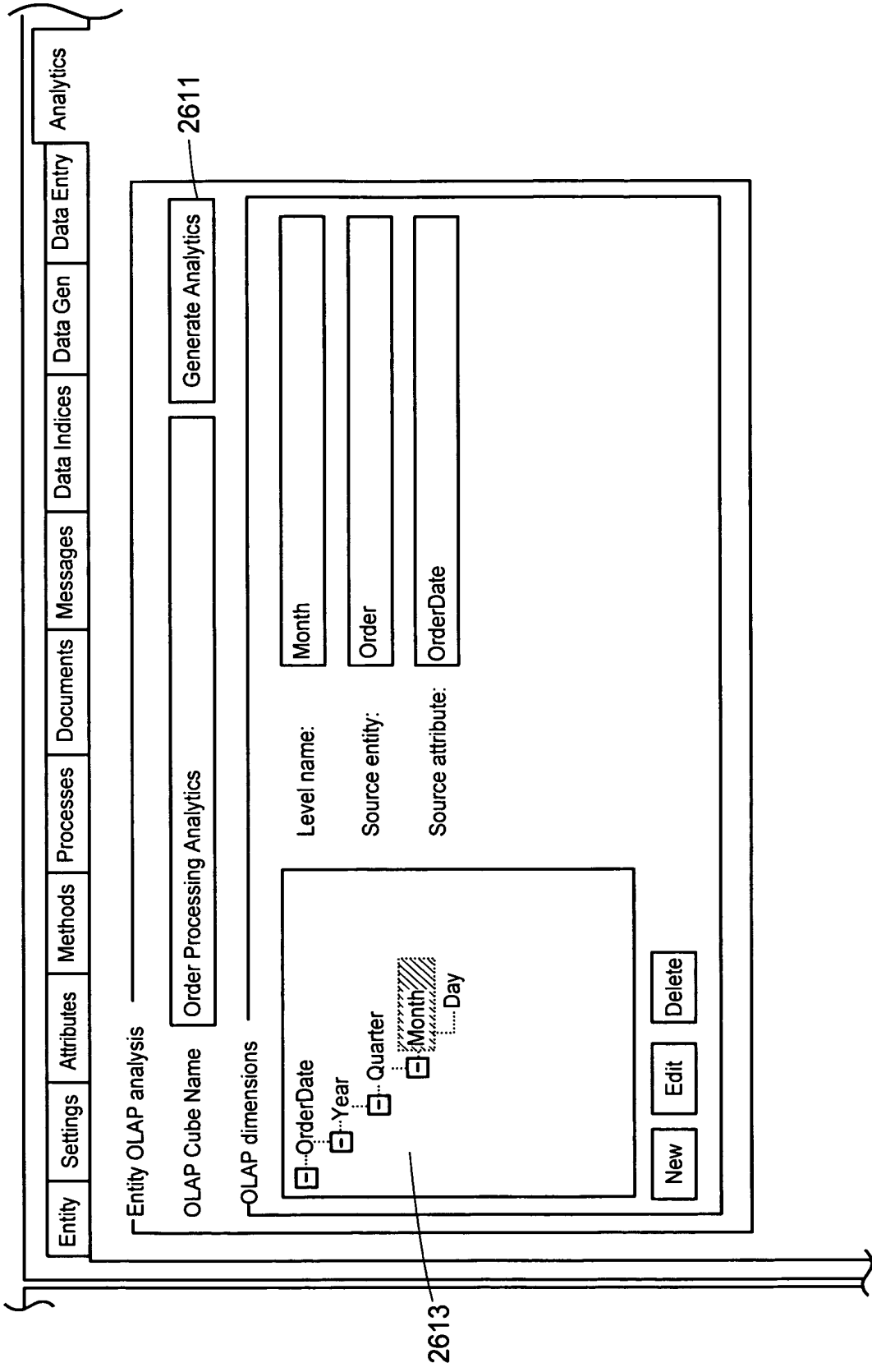


FIG. 26



✕

Edit Dimension

Dimension Name

Product

Dimension time

☐ Time dimension

Time hierarchy

Start month

▼

OK

Cancel

Order Attributes

	T	R	Attribute Name
1	B		Amount
2	B		OrderDate
3	E		OrderStatus
4	R		Customer
5	R		Product
6			
7			

Navigate Relationship

Back

2711

>>

<<

Clear

Dimension levels

Up

Down

Level display name:

FIG. 27



✕

2815

OK

Cancel

Dimension Name

Product

Dimension time

☐ Time dimension

Time hierarchy

Start month

▼

Product Attributes

	T	R	Attribute Name
1	B		ProductName
2	M		Orders
3	B		ProductFamilyName
4			
5			

Navigate Relationship

Back

Dimension levels

ProductFamilyName

Product: ProductName

Up

Down

Level display name:

ProductName

>>

<<

Clear

FIG. 28

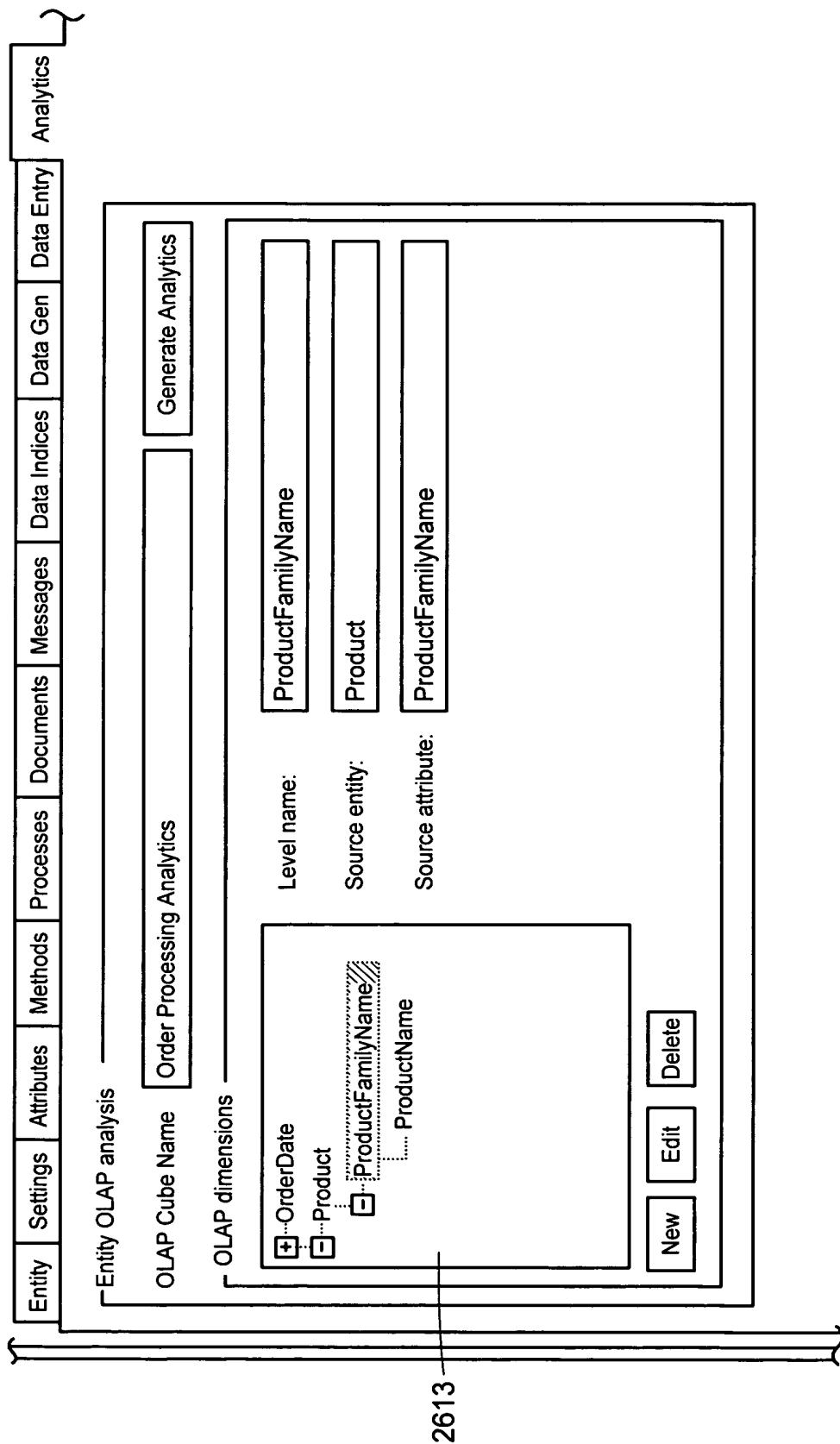


FIG. 29